

## **LINN ENERGY**

2130 W. Bender Blvd.  
Hobbs, NM 88241  
Phone 575.738.1739

**H.E. West B #41**  
2RP-1863

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# Termination Request

API No. 3001526033

Release Date: August 16<sup>th</sup>, 2013

Unit Letter N, Section 10, Township 17S, Range 31E

# Rice Environmental Consulting & Safety

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P.O. Box 2948, Hobbs, NM 88241

Phone 575.393.2967

**January 6<sup>th</sup>, 2014**

## **Mike Bratcher**

New Mexico Energy, Minerals, & Natural Resources

Oil Conservation Division, Environmental Bureau – District 2

811 S. First St.

Artesia, NM 88210

**RE: Termination Request**

**Linn Energy – H.E. West B #41 (2RP-1863)**

**UL/N sec. 10 T17S R31E**

**API No. 3001526033**

Mr. Bratcher:

Linn Energy (Linn) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

## **Background and Previous Work**

The site is located approximately 5.6 miles west of Maljamar, New Mexico at UL/N sec. 10 T17S R31E. This site is located in an area of no known groundwater.

On August 16<sup>th</sup>, 2013, Linn noticed a hole that developed due to corrosion at a 3 inch junction where the West B #41 flow line ties into the West B #31 flow line. A total of 20 gallons of produced water and 5 gallons of oil were released over 710 square feet of pasture land and lease road. None of the fluid was recovered. Linn informed BLM of the release on August 19<sup>th</sup>, 2013 and an initial C-141 was approved by NMOCD on August 26<sup>th</sup>, 2013 (Appendix A).

RECS personnel were on site beginning on August 23<sup>rd</sup>, 2013 to assess the site. Samples were taken from the surface and with depth at three locations throughout the release (Figure 1). The samples were field tested for chlorides and hydrocarbons and representative samples were taken to a commercial laboratory for analyses (Appendix B). The surface samples at the three points showed elevated laboratory chloride levels, Gasoline Range Organics (GRO) readings of non-detect and elevated Diesel Range Organics (DRO) readings. At Point 2, the laboratory chloride levels dropped to below 250 mg/kg at 2 ft bgs and at Point 3, the laboratory chloride levels dropped to below 250 mg/kg at 3 ft bgs. DRO levels in Point 2 dropped to 10.8 mg/kg at 2 ft bgs and in Point 3 to non-detect at 3 ft bgs.

At Point 1, a vertical was installed on October 4<sup>th</sup>, 2013, to determine the depth of contamination. The vertical was installed to a depth of 6.5 ft where the laboratory chloride reading returned a result of 944 mg/kg (Appendix C).

A Corrective Action Plan (CAP) was submitted to NMOCD and BLM on October 25<sup>th</sup>, 2013. BLM approved the CAP on October 29<sup>th</sup>, 2013 and NMOCD approved the CAP on November 15<sup>th</sup>, 2013. As part of the CAP, RECS recommended that the site be excavated to a depth where the laboratory readings on a 5 point bottom composite was below 1,000 mg/kg for chlorides and 1,000 mg/kg for GRO and DRO combined or to a depth of 4 ft bgs, whichever occurred first. The site would be excavated horizontally until grab samples from the side walls of the excavation returned laboratory chloride readings below 1,000 mg/kg and combined GRO and DRO readings below 1,000 mg/kg. The excavated soil would be taken to a NMOCD approved facility for disposal. Clean, imported soil would be backfilled into the excavation to ground surface in the pasture, while the lease road would be capped with caliche to provide a stable driving surface.

Once the site was backfilled, the pasture area would be seeded with a blend of native vegetation. Vegetation acts as an infiltration barrier for the site, since plants capture water through their roots thereby reducing the amount of water traveling through the vadose zone to groundwater.

CAP work began on November 20<sup>th</sup>, 2013 (Figure 2). The site was scraped to 6 inches bgs and a total of 36 yards of soil was taken to a NMOCD approved facility for disposal. A 5 point composite of the bottom of the excavation was taken to a commercial laboratory for analysis (Appendix D). The 5 point bottom composite returned a chloride result of 304 mg/kg, GRO and BTEX results of non-detect and a DRO result of 243 mg/kg. Final wall samples of the scrape could not be taken; the scrape was too shallow and the wall composition too loose to allow adequate sampling. Therefore, the scrape was expanded north and west of the release to remediate areas without vegetation. A total of 36 yards of caliche and 12 yards of top soil were imported to the site. Samples of both the caliche and top soil were taken to a commercial laboratory for analysis. The caliche returned a chloride result of 32 mg/kg and the top soil returned a chloride result of non-detect (Appendix D).

The lease road was backfilled with the imported caliche and the pasture was backfilled with the imported top soil. On December 10<sup>th</sup>, 2013, soil amendments were added to the pasture area and the area was seeded with LPC mix.

Photo documentation of all activities can be found in Appendix E.

Given that the CAP work was completed as approved by NMOCD and BLM, Linn respectfully requests 'remediation termination' and site closure. The final C-141 for the site can be found in Appendix F.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,

A handwritten signature in black ink, appearing to read 'Lara Weinheimer', with a long horizontal flourish extending to the right.

Lara Weinheimer  
Project Scientist  
RECS  
(575) 441-0431

Attachments:

- Figure 1 – Initial Sampling Data
- Figure 2 – Excavation Data
- Appendix A – Initial C-141
- Appendix B – Initial Sampling Lab
- Appendix C – Vertical Sampling Lab
- Appendix D – Corrective Action Plan Labs
- Appendix E – Photo Documentation
- Appendix F – Final C-141

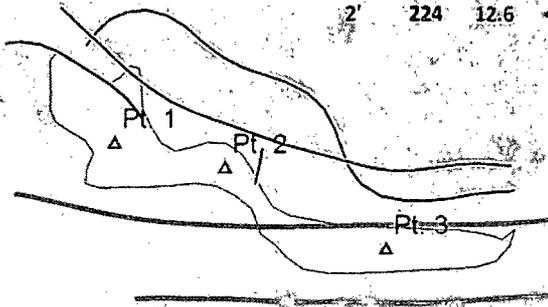
# Figures

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948, Hobbs, NM 88241  
Phone 575.393.2967

# Initial Sampling Data

Point 1	CI-	PID	GRO	DRO	B	T	E	X	BTEX
SS	5520	10.4	<50	13800	<0.05	0.05	0.173	0.384	0.608
6"	856	192.4							
1'	3286	50.8							
1.5'	2034	24							
2'	1446	509.8							
2.5'	1320	33.5							
3'	1762	24.9							
3.5'	1788	22.6							
4'	1985	49.6							
4.5'	1085	10.8							
5'	1192	27.6							
5.5'	1037	7.2							
6'	848	14.6	<10	<10					
6.5'	944	9.2	<10	<10					

Point 2	CI-	PID	GRO	DRO	B	T	E	X	BTEX
SS	23000	192.4	<10	499	<0.05	<0.05	<0.05	<0.15	<0.3
6"	2921	47.5							
1'	969	88.8							
1.5'	378	66.7							
2'	224	12.6	<10	10.8	<0.05	<0.05	<0.05	<0.15	<0.3



Point 3	CI-	PID	GRO	DRO	B	T	E	X	BTEX
SS	13300	50.8	<10	10.1	<0.05	<0.05	<0.05	<0.15	<0.3
6"	688	33.9							
1'	1410	30.9							
1.5'	1457	6.5							
2'	957	2.3							
2.5'	896	11.2	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
3'	48	28.6	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

## Legend

- ▲ SAMPLE POINTS
- ROADWAY
- SURFACE PIPELINE
- STAIN (710 SQ FT)
- CI- FIELD DATA
- CI- LAB DATA

Landowner = BLM

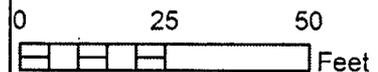
DGW = None



**LINN H.E. WEST B  
FEDERAL #041  
2RP-1863**

LEGALS: UL/N SEC 10  
T17S R31E  
EDDY COUNTY, NM

Figure 1



GPS date: 10/4/13 EC  
Drawing date: 10/8/13  
Drafted by: L. Weinheimer

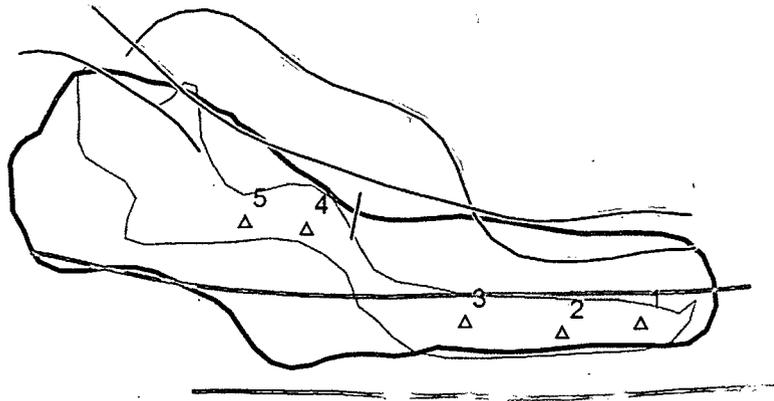
# Excavation Data

5 point composite Lab at 6 inches

Cl-	PID	GRO	DRO	B	T	E	X	BTEX
304	14.6	<50	243	<0.05	<0.05	<0.05	<0.15	<0.3

**Backfill Labs**

Cl-	
Caliche	32
Top Soil	<16



**Legend**

- △ FINAL SAMPLE POINTS
- ROADWAY
- - - SURFACE PIPELINE
- ▭ SCRAPE AT 6 INCHES
- ▭ STAIN (710 SQ FT)
- CI- FIELD DATA
- CI- LAB DATA

Landowner = BLM

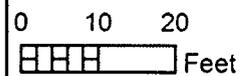
DGW = None



**LINN H.E. WEST B  
FEDERAL #041  
2RP-1863**

LEGALS: UL/N SEC 10  
T17S R31E  
EDDY COUNTY, NM

**Figure 2**



GPS date: 11/20/13 AG  
Drawing date: 12/3/13  
Drafted by: L. Weinheimer

# Appendix A

Initial C-141

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
11220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

**RECEIVED**  
AUG 20 2013  
NMOC-D ARTESIA

Form C-141  
Revised October 10, 2003

**Release Notification and Corrective Action**

*njmw* 132-3833294

OPERATOR  Initial Report  Final Report

Name of Company: Linn Operating 269324	Contact: Brian Wall
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No.: 575-738-1739
Facility Name: H.E. West B #41	Facility Type: Oil Producer
Surface Owner: Federal	Mineral Owner:
API No.: 3001526033	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	10	17S	31E	660	South	2020	West	Eddy

Latitude: 32.8436498158389 Longitude: -103.859578071309

**NATURE OF RELEASE**

Type of Release: Produced Water/Oil	Volume of Releases 20 gal / 5 gal	Volume Recovered 0 / 0
Source of Release: Poly Pipeline	Date and Hour of Occurrence: 08/16/2013 7:00pm	Date and Hour of Discovery: 08/16/2013 7:00pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Burton-BLM	
By Whom? Brian Wall	Date and Hour 08/19/2013 2:00pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse:	

If a Watercourse was impacted, Describe Fully: \*

Describe Cause of Problem and Remedial Action Taken: \* A hole developed at a 3" junction where West B#41 flow lines into West B#31 flow line in route to the West B-4 tank battery. Corrosion appears to have caused the failure.

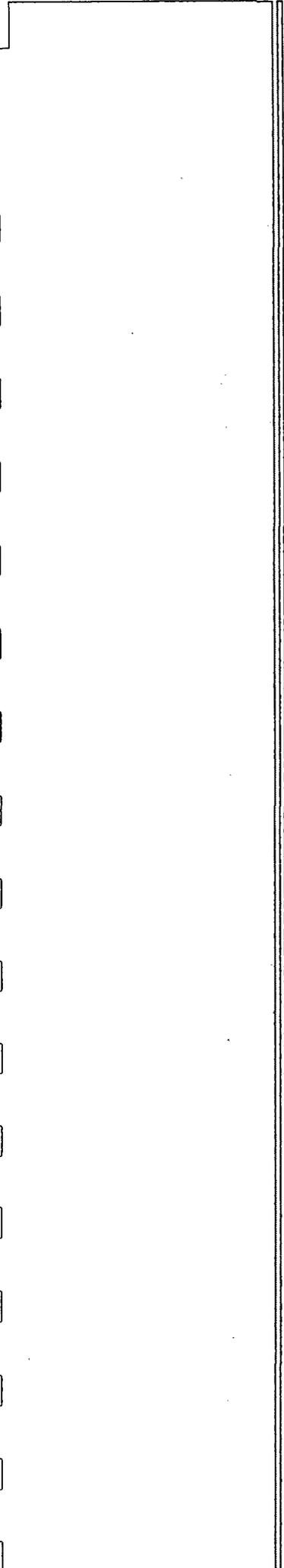
Describe Area Affected and Cleanup Action Taken: \* Area affected was 3' x 2' ft.

I hereby certify that the information given above is true and complete to the best of my knowledge and understanding and pursuant to NMOC-D rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOC-D marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC-D acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>[Signature]</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Brian Wall	Approved by District Supervisor:	Signed By: <i>[Signature]</i>
Title: Construction Foreman II	Approval Date: <b>AUG 26 2013</b>	Expiration Date:
E-mail Address: bwall@linenergy.com	Conditions of Approval:	Attached: <input type="checkbox"/>
Date: 08/20/2013 Phone: 806-367-0645	Remediation per OCD Rule 8, Guidelines, & like approval by BLM. <b>SUBMIT REMEDIATION PROPOSAL NO LATER THAN:</b>	

\* Attach Additional Sheets if Necessary.

**September 26, 2013**  
2RP-1863



# Appendix B

## Initial Sampling Lab

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

September 16, 2013

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: H. E. WEST B FEDERAL #41

Enclosed are the results of analyses for samples received by the laboratory on 09/12/13 8:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

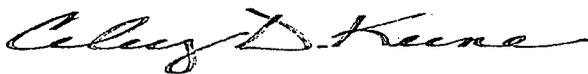
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 HACK CONDER  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	09/12/2013	Sampling Date:	09/09/2013
Reported:	09/16/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B FEDERAL #41	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 1 @ SURFACE (H302207-01)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2013	ND	2.05	103	2.00	0.141		
<b>Toluene*</b>	<b>0.050</b>	0.050	09/13/2013	ND	2.19	110	2.00	1.10		
<b>Ethylbenzene*</b>	<b>0.173</b>	0.050	09/13/2013	ND	2.30	115	2.00	1.19		
<b>Total Xylenes*</b>	<b>0.384</b>	0.150	09/13/2013	ND	6.96	116	6.00	1.34		
<b>Total BTEX</b>	<b>0.608</b>	0.300	09/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 123 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>5520</b>	16.0	09/16/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<50.0	50.0	09/13/2013	ND	200	100	200	4.71			
<b>DRO &gt;C10-C28</b>	<b>13800</b>	50.0	09/13/2013	ND	192	96.1	200	3.84			

Surrogate: 1-Chlorooctane 89.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 555 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 HACK CONDER  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	09/12/2013	Sampling Date:	09/09/2013
Reported:	09/16/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B FEDERAL #41	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 2 @ SURFACE (H302207-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2013	ND	2.05	103	2.00	0.141		
Toluene*	<0.050	0.050	09/13/2013	ND	2.19	110	2.00	1.10		
Ethylbenzene*	<0.050	0.050	09/13/2013	ND	2.30	115	2.00	1.19		
Total Xylenes*	<0.150	0.150	09/13/2013	ND	6.96	116	6.00	1.34		
Total BTEX	<0.300	0.300	09/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	23000	16.0	09/16/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/13/2013	ND	200	100	200	4.71		
DRO >C10-C28	499	10.0	09/13/2013	ND	192	96.1	200	3.84		

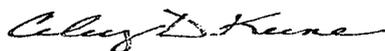
Surrogate: 1-Chlorooctane 85.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 HACK CONDER  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	09/12/2013	Sampling Date:	09/09/2013
Reported:	09/16/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B FEDERAL #41	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 2 @ 2' (H302207-03)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2013	ND	2.05	103	2.00	0.141		
Toluene*	<0.050	0.050	09/13/2013	ND	2.19	110	2.00	1.10		
Ethylbenzene*	<0.050	0.050	09/13/2013	ND	2.30	115	2.00	1.19		
Total Xylenes*	<0.150	0.150	09/13/2013	ND	6.96	116	6.00	1.34		
Total BTEX	<0.300	0.300	09/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	09/16/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/13/2013	ND	200	100	200	4.71		
DRO >C10-C28	10.8	10.0	09/13/2013	ND	192	96.1	200	3.84		

Surrogate: 1-Chlorooctane 70.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 83.9 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 HACK CONDER  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	09/12/2013	Sampling Date:	09/09/2013
Reported:	09/16/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B FEDERAL #41	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 3 @ SURFACE (H302207-04)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2013	ND	2.05	103	2.00	0.141		
Toluene*	<0.050	0.050	09/13/2013	ND	2.19	110	2.00	1.10		
Ethylbenzene*	<0.050	0.050	09/13/2013	ND	2.30	115	2.00	1.19		
Total Xylenes*	<0.150	0.150	09/13/2013	ND	6.96	116	6.00	1.34		
Total BTEX	<0.300	0.300	09/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>13300</b>	16.0	09/16/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/13/2013	ND	200	100	200	4.71		
<b>DRO &gt;C10-C28</b>	<b>10.1</b>	10.0	09/13/2013	ND	192	96.1	200	3.84		

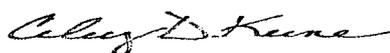
Surrogate: 1-Chlorooctane 84.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.9 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 HACK CONDER  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	09/12/2013	Sampling Date:	09/09/2013
Reported:	09/16/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B FEDERAL #41	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 3 @ 2.5' (H302207-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2013	ND	2.05	103	2.00	0.141	
Toluene*	<0.050	0.050	09/13/2013	ND	2.19	110	2.00	1.10	
Ethylbenzene*	<0.050	0.050	09/13/2013	ND	2.30	115	2.00	1.19	
Total Xylenes*	<0.150	0.150	09/13/2013	ND	6.96	116	6.00	1.34	
Total BTEX	<0.300	0.300	09/13/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	09/16/2013	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2013	ND	200	100	200	4.71	
DRO >C10-C28	<10.0	10.0	09/13/2013	ND	192	96.1	200	3.84	

Surrogate: 1-Chlorooctane 78.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.3 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 HACK CONDER  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	09/12/2013	Sampling Date:	09/09/2013
Reported:	09/16/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B FEDERAL #41	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 3 @ 3' (H302207-06)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2013	ND	2.05	103	2.00	0.141		
Toluene*	<0.050	0.050	09/13/2013	ND	2.19	110	2.00	1.10		
Ethylbenzene*	<0.050	0.050	09/13/2013	ND	2.30	115	2.00	1.19		
Total Xylenes*	<0.150	0.150	09/13/2013	ND	6.96	116	6.00	1.34		
Total BTEX	<0.300	0.300	09/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/16/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/13/2013	ND	200	100	200	4.71		
DRO >C10-C28	<10.0	10.0	09/13/2013	ND	192	96.1	200	3.84		

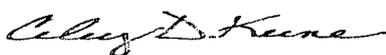
Surrogate: 1-Chlorooctane 80.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.2 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

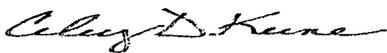
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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**Cardinal Laboratories**

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

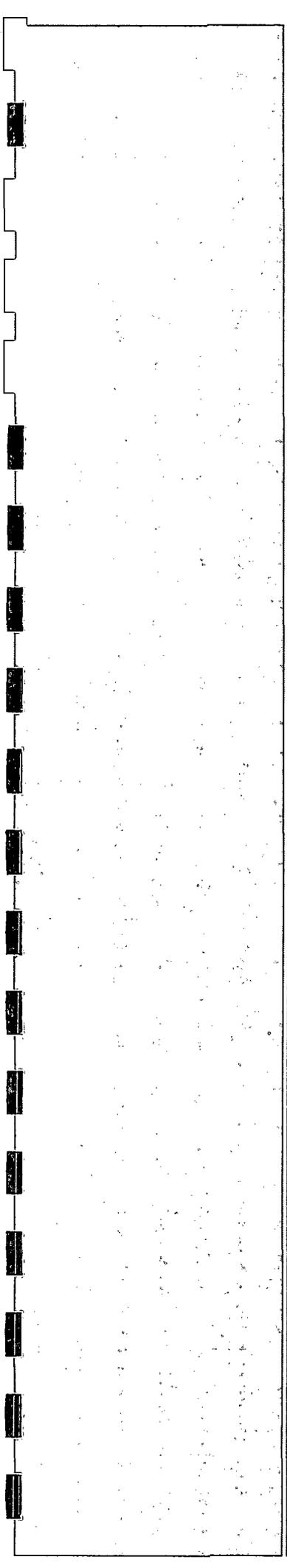
101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Linn Energy</u>		<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>														
Project Manager: <u>Rick Rickman</u>		P.O. #:																		
Address:		Company:																		
City:	State:	Zip:		Attn:																
Phone #:	Fax #:		Address:																	
Project #:	Project Owner:			City:																
Project Name:		State:														Zip:				
Project Location: <u>H.E. West B<sup>Federal</sup> #41</u>		Phone #:																		
Sampler Name: <u>Mrs Flores</u>		Fax #:																		
FOR LAB USE ONLY		(C)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		Chloride	TPH	BTEX					
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:				DATE	TIME			
<u>H302207</u>																				
<u>1</u>	<u>Point 1 @ Surface</u>	<u>G</u>	<u>1</u>			<u>/</u>					<u>9-9-13</u>	<u>12:00pm</u>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>				
<u>2</u>	<u>Point 2 @ surface</u>	<u>G</u>	<u>1</u>			<u>/</u>					<u>12:45pm</u>									
<u>3</u>	<u>Point 2 @ 2'</u>	<u>G</u>	<u>1</u>			<u>/</u>					<u>1:05pm</u>									
<u>4</u>	<u>Point 3 @ Surface</u>	<u>G</u>	<u>1</u>			<u>/</u>					<u>1:10pm</u>									
<u>5</u>	<u>Point 3 @ 2.5'</u>	<u>G</u>	<u>1</u>			<u>/</u>					<u>1:35pm</u>									
<u>6</u>	<u>Point 3 @ 3'</u>	<u>G</u>	<u>1</u>			<u>/</u>					<u>1:40pm</u>									

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: <u>9-12-2013</u>	Received By: <u>Jodi Henson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>8:45</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	Checked By:		
Sampler - UPS - Bus - Other:	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>JH</u>		

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



# Appendix C

## Vertical Sampling Lab

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

October 08, 2013

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: H. E. WEST B FEDERAL #41

Enclosed are the results of analyses for samples received by the laboratory on 10/04/13 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

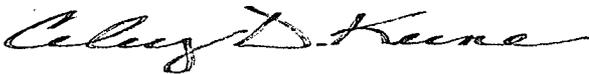
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 HACK CONDER  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	10/04/2013	Sampling Date:	10/04/2013
Reported:	10/08/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B FEDERAL #41	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: VERTICAL PT. 1 6' (H302413-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>848</b>	16.0	10/08/2013	ND	400	100	400	7.69		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/07/2013	ND	192	95.8	200	0.902		
DRO >C10-C28	<10.0	10.0	10/07/2013	ND	181	90.4	200	0.0160		
<i>Surrogate: 1-Chlorooctane</i>	<i>96.6 %</i>	<i>65.2-140</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>97.9 %</i>	<i>63.6-154</i>								

**Sample ID: VERTICAL PT. 1 6.5' (H302413-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>944</b>	16.0	10/08/2013	ND	400	100	400	7.69		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/07/2013	ND	192	95.8	200	0.902		
DRO >C10-C28	<10.0	10.0	10/07/2013	ND	181	90.4	200	0.0160		
<i>Surrogate: 1-Chlorooctane</i>	<i>94.3 %</i>	<i>65.2-140</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>97.2 %</i>	<i>63.6-154</i>								

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

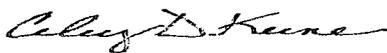
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

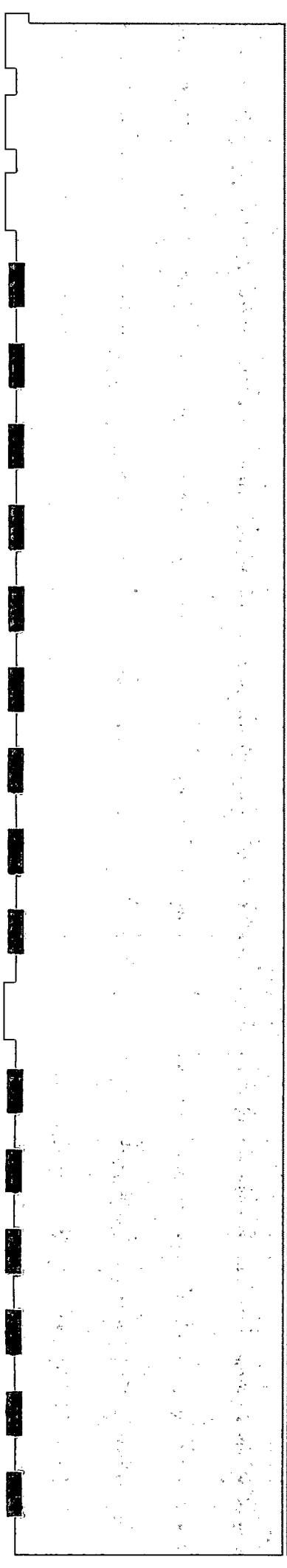
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Celey D. Keene, Lab Director/Quality Manager





# Appendix D

## Corrective Action Plan Labs

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

November 21, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: H. E. WEST B FEDERAL #41

Enclosed are the results of analyses for samples received by the laboratory on 11/20/13 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 JACOB KAMPLAIN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	11/20/2013	Sampling Date:	11/20/2013
Reported:	11/21/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B FEDERAL #41	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T17S R31		

**Sample ID: 5 PT. COMPOSITE (H302839-01)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/21/2013	ND	1.84	92.1	2.00	1.58		
Toluene*	<0.050	0.050	11/21/2013	ND	1.90	94.9	2.00	0.599		
Ethylbenzene*	<0.050	0.050	11/21/2013	ND	1.96	98.1	2.00	1.54		
Total Xylenes*	<0.150	0.150	11/21/2013	ND	5.76	96.0	6.00	0.240		
Total BTEX	<0.300	0.300	11/21/2013	ND						

Surrogate: Dibromofluoromethane 96.1 % 61.3-142

Surrogate: Toluene-d8 98.4 % 71.3-129

Surrogate: 4-Bromofluorobenzene 96.5 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	11/21/2013	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	11/21/2013	ND	190	95.0	200	13.1		
DRO >C10-C28	243	50.0	11/21/2013	ND	180	89.8	200	4.80		

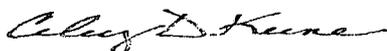
Surrogate: 1-Chlorooctane 70.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 123 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

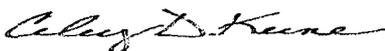
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

\*KUSH\*

Company Name: <b>RECS</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																							
Project Manager: <b>Jacob Kampain</b>		P.O. #:		Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS																		
Address:		Company:																									
City: Hobbs State: NM Zip: 88240		Attn:																									
Phone #: Fax #:		Address:																									
Project #: Project Owner:		City:																									
Project Name: <b>Linn H.E. West B Fed #41</b>		State: Zip:																									
Project Location: <b>TINSR31E</b>		Phone #:																									
Sampler Name: <b>Amber Groves</b>		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS							MATRIX				PRESERV.	SAMPLING												
		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER	DATE	TIME															
<b>4302839</b>	<b>1 Spt. Composite</b>	<b>9</b>	<b>1</b>			<input checked="" type="checkbox"/>					<b>11-20-13</b>	<b>12:15</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <b>Amber Groves</b>	Date: <b>11-20-13</b> Time: <b>4:25</b>	Received By: <b>Jodi Henson</b>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	REMARKS: email results knorman@rice-ecs.com hconder@rice-ecs.com; Lweinheimer@rice-ecs.com; kjones@riceswd.com; Lpena@riceswd.com; sedwards@rice-ecs.com agroves@rice-ecs.com	
		CHECKED BY: <b>GH</b>		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#54

December 02, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: H. E. WEST B FEDERAL #41

Enclosed are the results of analyses for samples received by the laboratory on 11/20/13 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 JACOB KAMPLAIN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	11/20/2013	Sampling Date:	11/20/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B FEDERAL #41	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T17S R31		

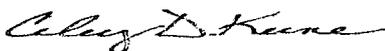
**Sample ID: BACKFILL (H302840-01)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	11/22/2013	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

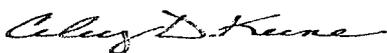
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference.
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

---

**Cardinal Laboratories**

\* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



---

Celey D. Keene, Lab Director/Quality Manager



# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>RECS</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																						
Project Manager: <u>Jacob Lamplain</u>		P.O. #:		Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS																	
Address:		Company:																								
City: Hobbs State: NM Zip: 88240		Attn:																								
Phone #: Fax #:		Address:																								
Project #: Project Owner:		City:																								
Project Name: <u>Linn H.E. West B Fed #41</u>		State: Zip:																								
Project Location: <u>T175 R31E</u>		Phone #:																								
Sampler Name: <u>Amber Groves</u>		Fax #:																								
FOR LAB USE ONLY																										
Lab I.D.	Sample I.D.	(C)RAB OR (C)OMP.	# CONTAINERS							MATRIX					PRESERV.			SAMPLING								
		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER	DATE	TIME														
<u>H302840</u>	<u>Backfill</u>	<u>5</u>	<u>1</u>								<u>11-20-13</u>	<u>8:45</u>														

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>Amber Groves</u>	Date: <u>11-20-13</u> Time: <u>4:25</u>	Received By: <u>Jodi Benson</u>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: <u>JGA</u>	REMARKS: email results knorman@rice-ecs.com hconder@rice-ecs.com; Lweinheimer@rice-ecs.com; kjones@riceswd.com; Lpena@riceswd.com; sedwards@rice-ecs.com agroves@rice-ecs.com	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#54

December 02, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: H. E. WEST B #41

Enclosed are the results of analyses for samples received by the laboratory on 11/21/13 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 JACOB KAMPLAIN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	11/21/2013	Sampling Date:	11/21/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #41	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T17S R31E		

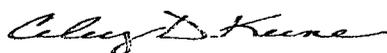
**Sample ID: BACKFILL (H302866-01)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/02/2013	ND	416	104	400	3.92	

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

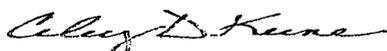
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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Celey D. Keene, Lab Director/Quality Manager



# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>ECOS</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																						
Project Manager: <b>Jacob Kampain</b>		P.O. #:		Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS																	
Address:		Company:																								
City: Hobbs State: NM Zip: 88240		Attn:																								
Phone #: Fax #:		Address:																								
Project #: <b>Linn</b> Project Owner:		City:																								
Project Name: <b>H.E. Weg B #41</b>		State: Zip:																								
Project Location: <b>T175 R31E</b>		Phone #:																								
Sampler Name: <b>Amber Groves</b>		Fax #:																								
FOR LAB USE ONLY																										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS							MATRIX						PRESERV.		SAMPLING								
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME												
<b>H3028dd</b>	<b>Backfill</b>	<b>G</b>	<b>1</b>			<input checked="" type="checkbox"/>						<b>11-21-13</b>	<b>10:30</b>	<input checked="" type="checkbox"/>												

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <b>Amber Groves</b>	Date: <b>11-21-13</b> Time: <b>4:30</b>	Received By: <b>Jodi Benson</b>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: <b>JAG</b>	
REMARKS: email results knorman@rice-ecs.com hconder@rice-ecs.com; Lweinheimer@rice-ecs.com; kjones@riceswd.com; Lpena@riceswd.com; sedwards@rice-ecs.com agroves@rice-ecs.com				

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

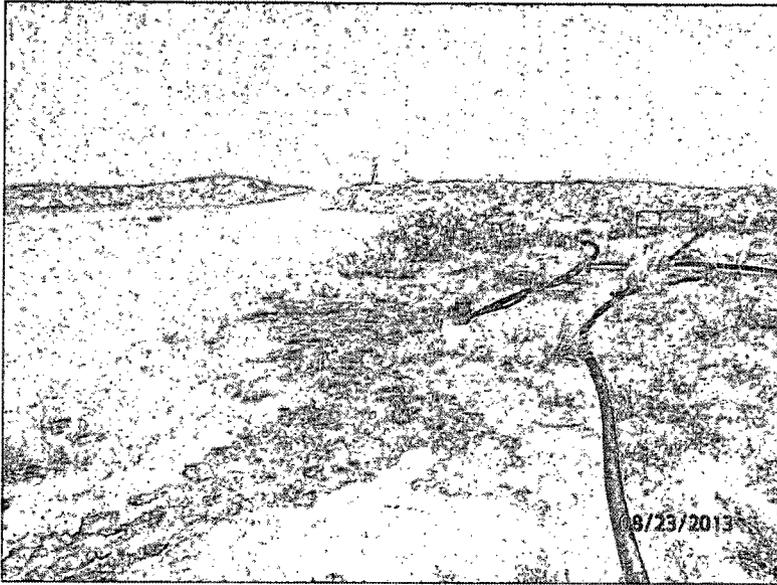
# 54

# Appendix E

Photo Documentation

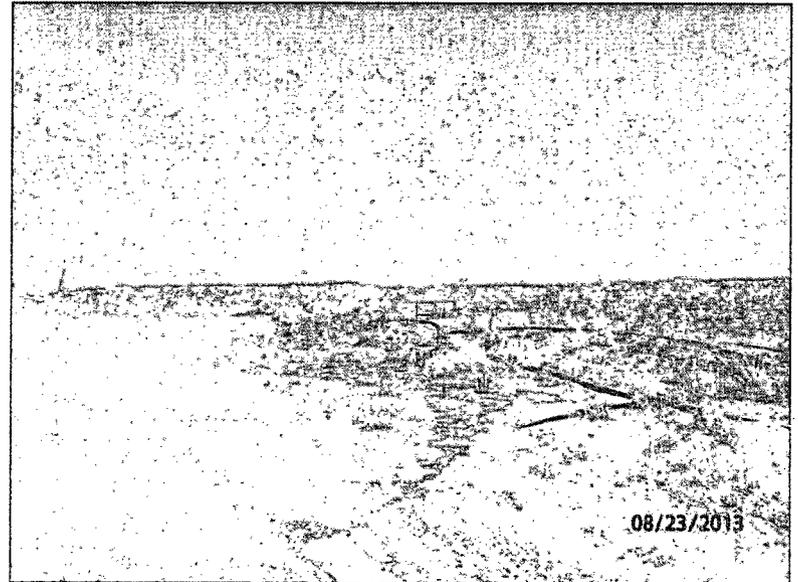
**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

**Linn H.E. West B #41**  
Unit Letter N, Section 10, T17S, R31E



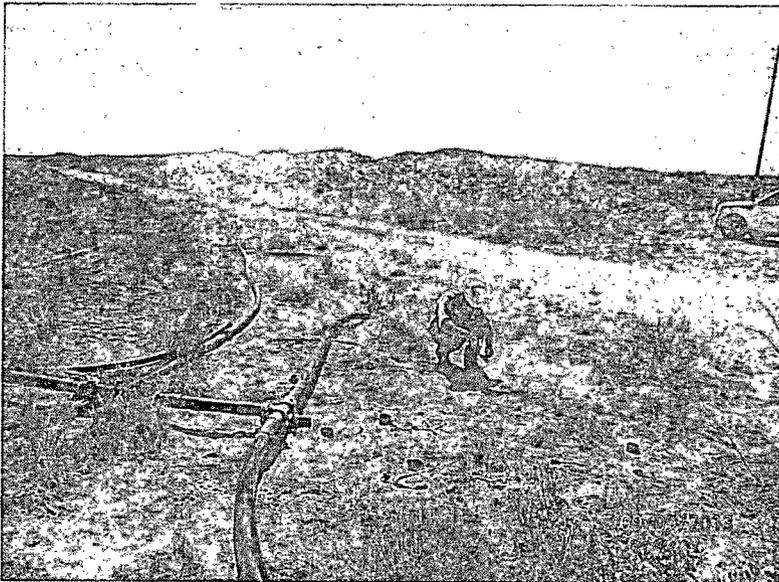
Initial release area, facing west

8/23/13



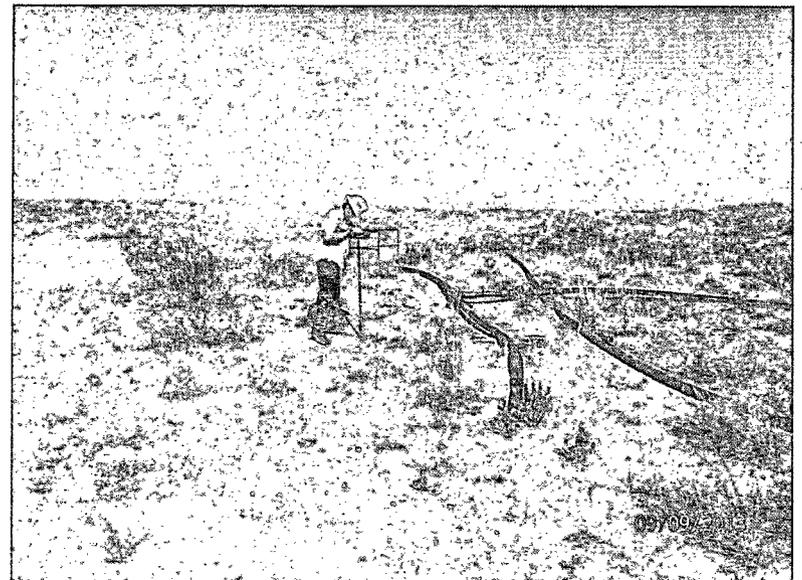
Initial release area, facing northwest

8/23/13



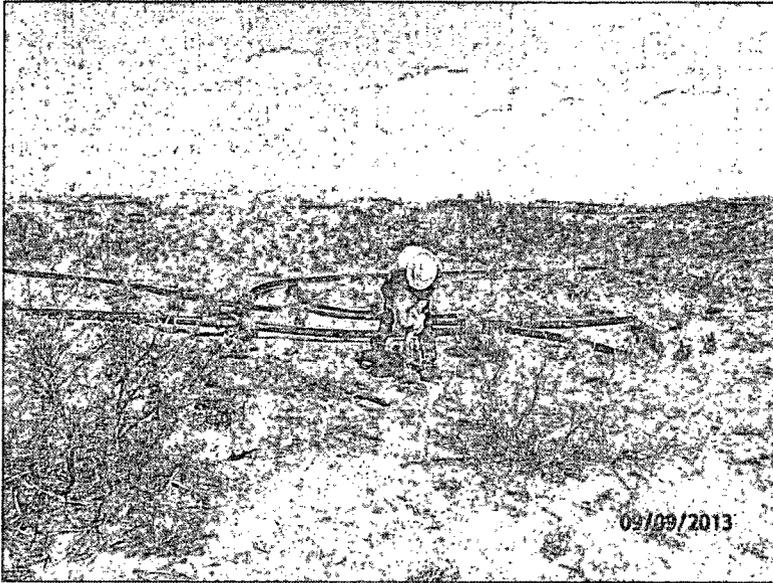
Sampling the surface, facing southeast

9/9/13

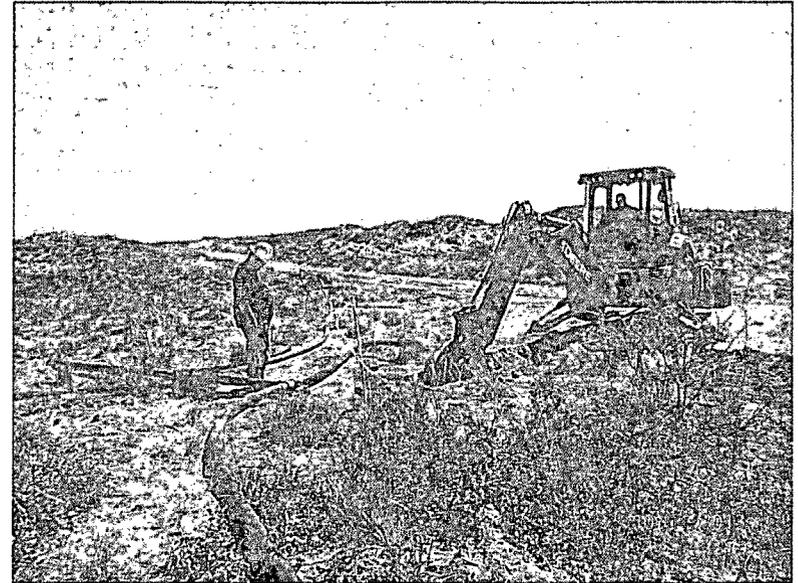


Auguring for depth, facing northwest

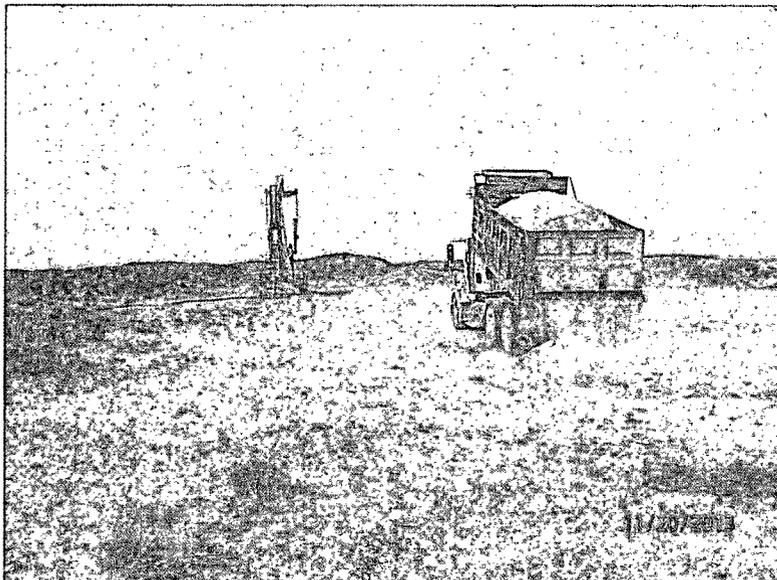
9/9/13



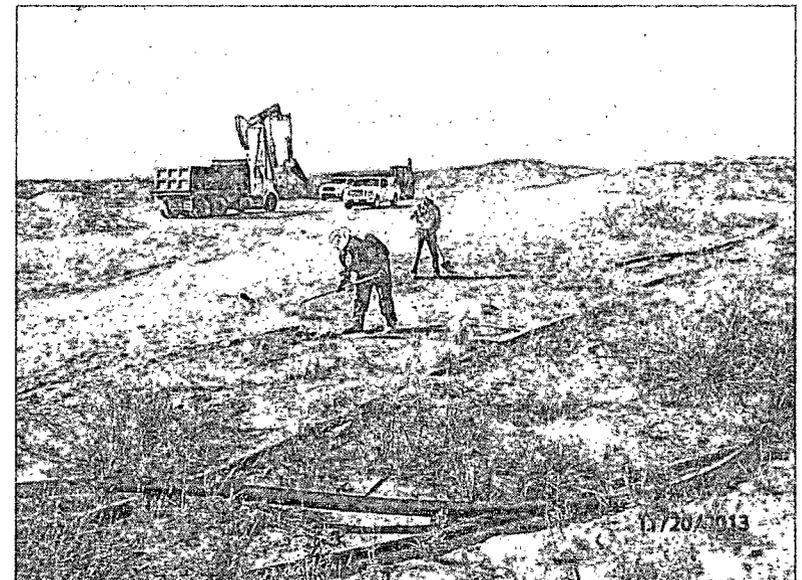
Plugging auger points in total with bentonite, facing  
northeast 9/9/13



Installing vertical at Pt. 1, facing east 10/4/13



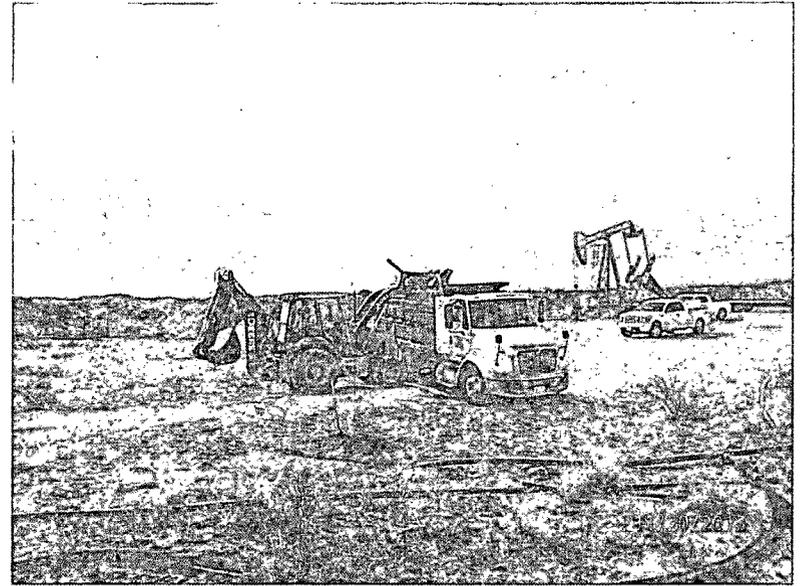
Importing caliche, facing west 11/20/13



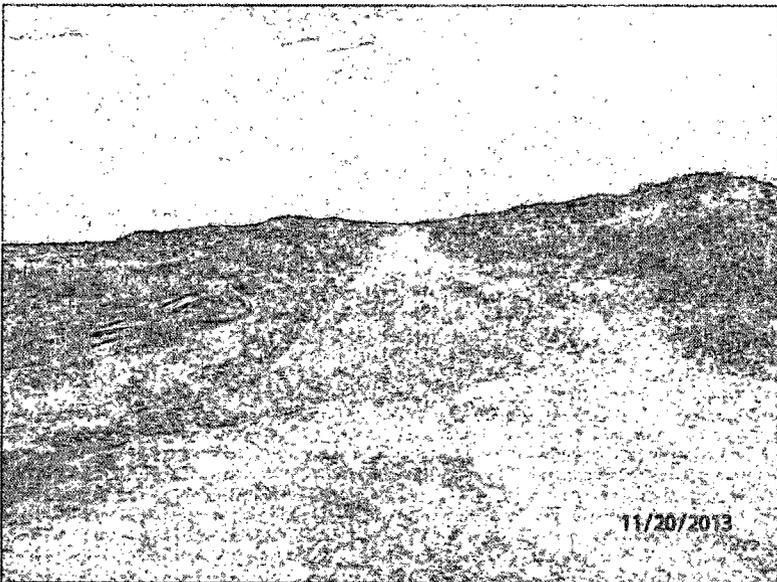
Spotting lines, facing southwest 11/20/13



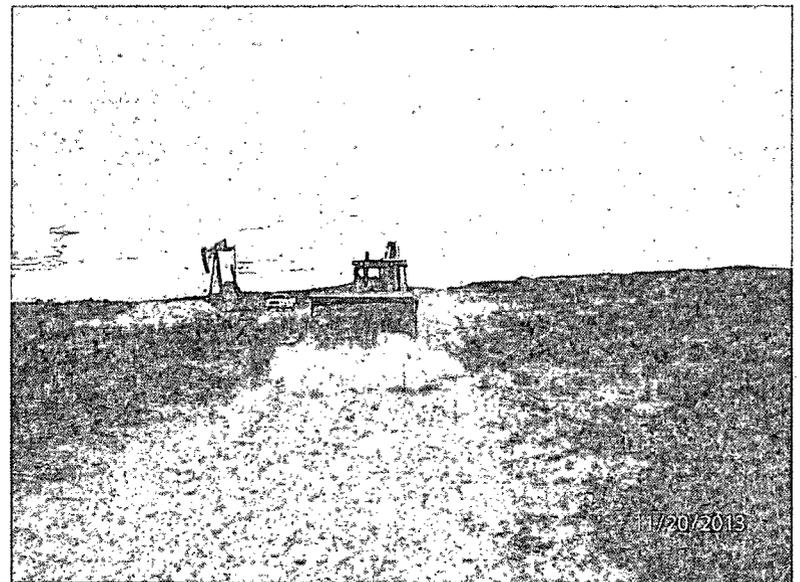
Conducting 6 inch scrape, facing southwest 11/20/13



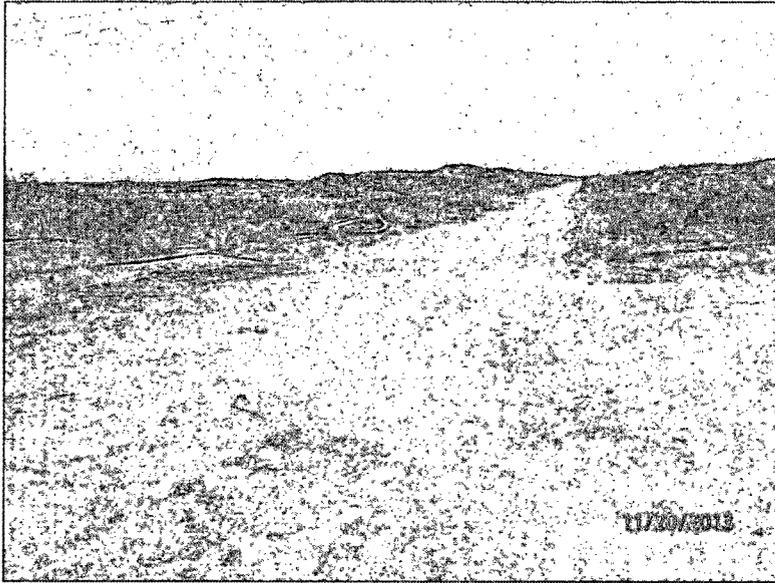
Exporting soil, facing southwest 11/20/13



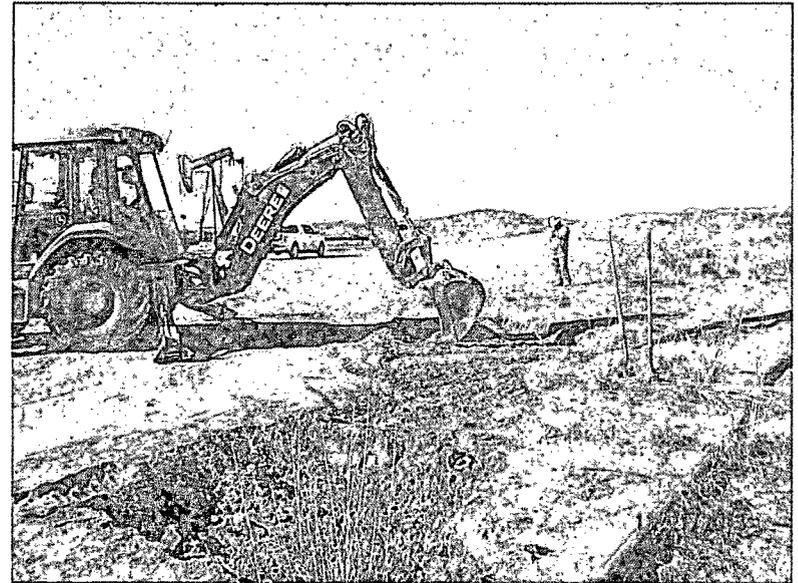
Road scrape completed, facing east 11/20/13



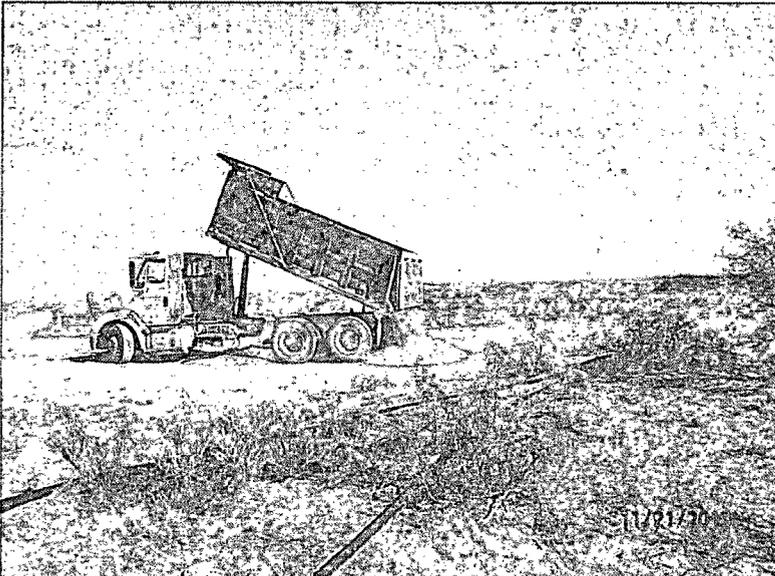
Backfilling road scrape, facing west 11/20/13



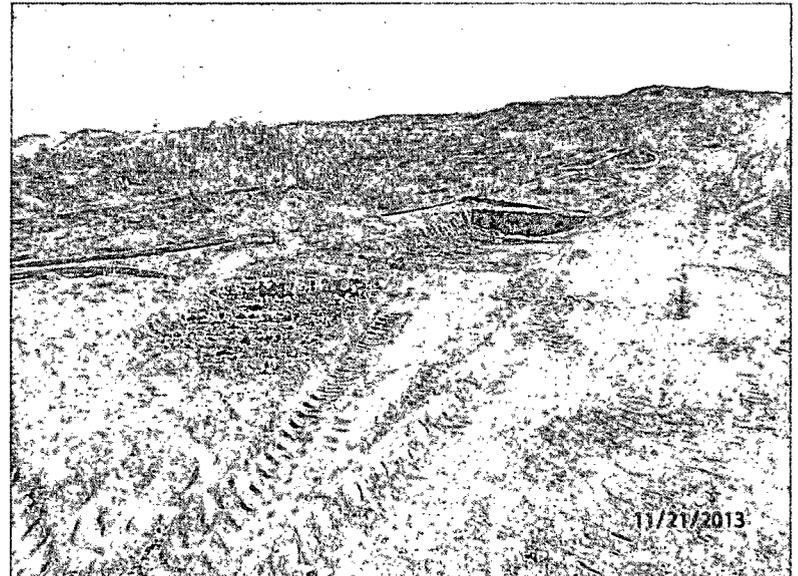
Road scrape completed, facing northeast 11/20/13



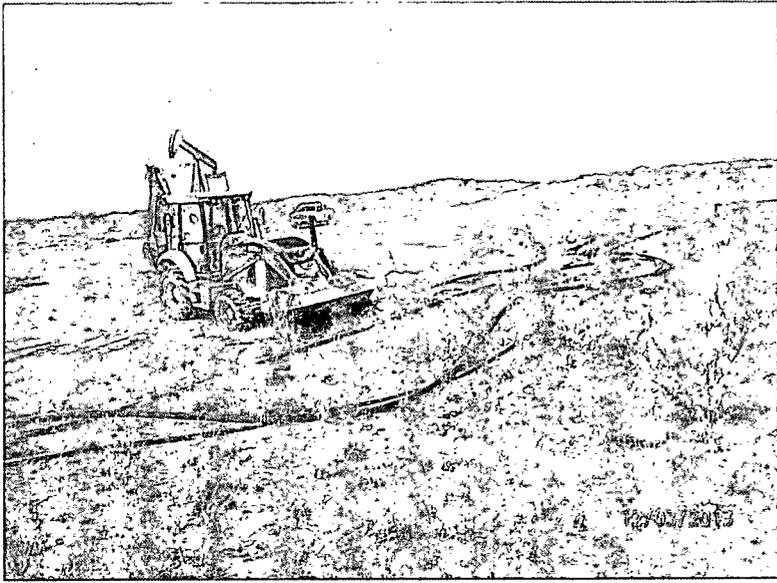
Conducting pasture scrape, facing southwest 11/21/13



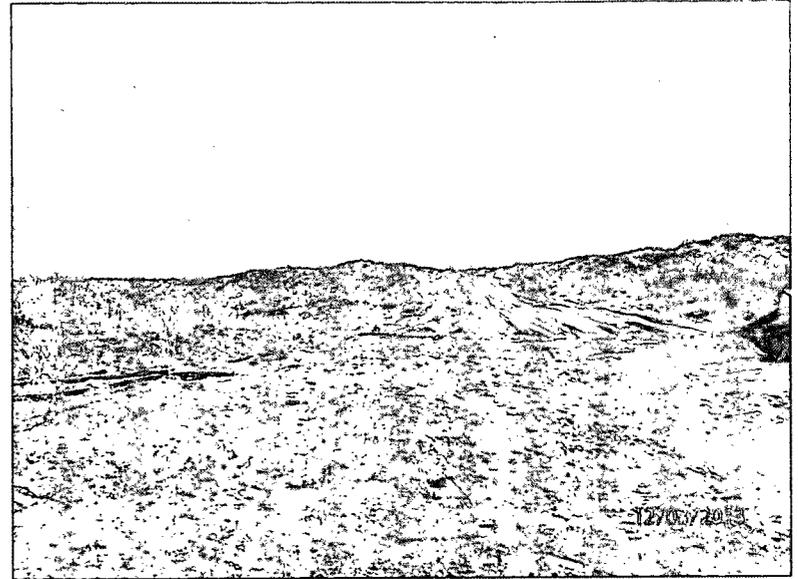
Importing top soil, facing north 11/21/13



Pasture scrape completed, facing northeast 11/21/13



Backfilling pasture scrape, facing southwest 12/3/13



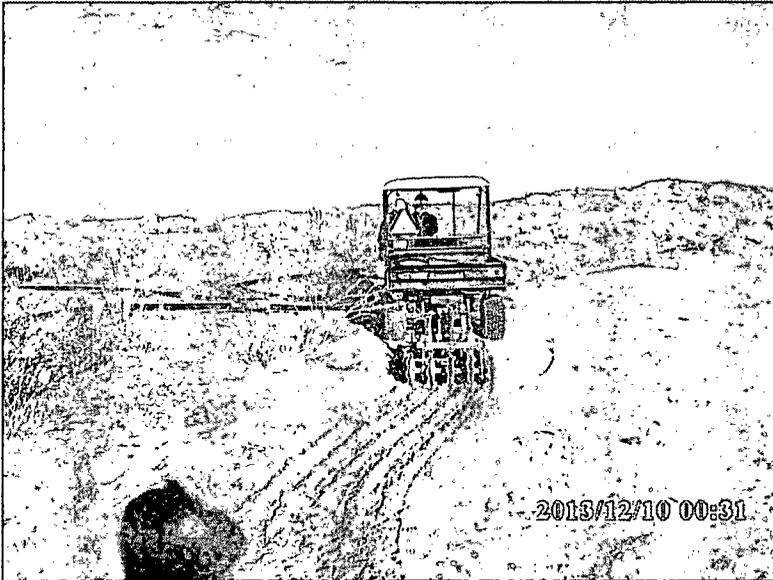
Pasture scrape completed, facing east 12/3/13



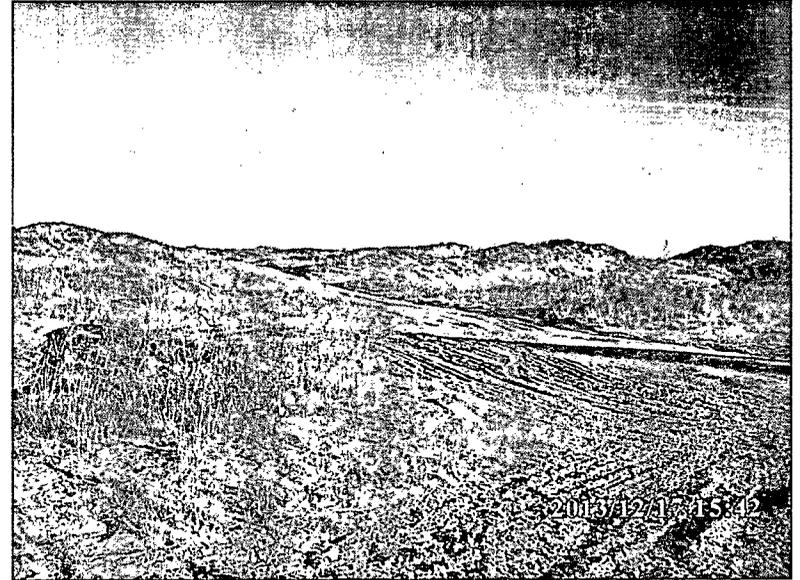
Soil amendments added, facing west 12/10/13



Seeding site facing west 12/10/13



Tilling in amendments and seed, facing north 12/10/13



Site completed, facing southeast

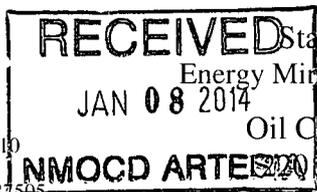
12/17/13

# Appendix F

Final C-141

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505



State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

### Release Notification and Corrective Action

#### OPERATOR

Initial Report  Final Report

Name of Company Linn Operating	Contact Brian Wall
Address 2130 W. Bender, Hobbs, NM 88240	Telephone No. (806) 367-0645
Facility Name H.E. West B #41	Facility Type Oil Producer

Surface Owner Federal	Mineral Owner Federal	API No. 3001526033
-----------------------	-----------------------	--------------------

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	10	17S	31E	660	South	2020	West	Eddy

Latitude 32.8436498158389 Longitude -103.859578071309

#### NATURE OF RELEASE

Type of Release Produced Water/ Oil	Volume of Release 20 gals/ 5 gals	Volume Recovered 0/0
Source of Release Poly Pipeline	Date and Hour of Occurrence 8/16/2013 7:00 pm	Date and Hour of Discovery 8/16/2013 7:00 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Burton - BLM	
By Whom? Brian Wall	Date and Hour 8/19/2013 2:00 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume-Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* A hole developed at a 3" junction where the West B #41 flow line ties into the West B #31 flow line in route to the West B Tank Battery. Corrosion appears to have caused the failure.

Describe Area Affected and Cleanup Action Taken.\* RECS personnel were on site beginning on August 23<sup>rd</sup>, 2013 to assess the site. Samples were taken from the surface and with depth at three locations throughout the 710 sq ft release. The samples were field tested for chlorides and hydrocarbons and representative samples were taken to a commercial laboratory for analyses. The surface samples at the three points showed elevated laboratory chloride levels, Gasoline Range Organics (GRO) readings of non-detect and elevated Diesel Range Organics (DRO) readings. At Point 2, the laboratory chloride levels dropped to below 250 mg/kg at 2 ft bgs and at Point 3, the laboratory chloride levels dropped to below 250 mg/kg at 3 ft bgs. DRO levels in Point 2 dropped to 10.8 mg/kg at 2 ft bgs and in Point 3 to non-detect at 3 ft bgs. At Point 1, a vertical was installed on October 4<sup>th</sup>, 2013, to determine the depth of contamination. The vertical was installed to a depth of 6.5 ft where the laboratory chloride reading returned a result of 944 mg/kg. A Corrective Action Plan (CAP) was submitted to NMOCD and BLM on October 25<sup>th</sup>, 2013. BLM approved the CAP on October 29<sup>th</sup>, 2013 and NMOCD approved the CAP on November 15<sup>th</sup>, 2013. CAP work began on November 20<sup>th</sup>, 2013. The site was scraped to 6 inches bgs and a total of 36 yards of soil was taken to a NMOCD approved facility for disposal. A 5 point composite of the bottom of the excavation was taken to a commercial laboratory for analysis. The 5 point bottom composite returned a chloride result of 304 mg/kg, GRO and BTEX results of non-detect and a DRO result of 243 mg/kg. Final wall samples of the scrape could not be taken; the scrape was too shallow and the wall composition too loose to allow adequate sampling. Therefore, the scrape was expanded north and west of the release to remediate areas without vegetation. A total of 36 yards of caliche and 12 yards of top soil were imported to the site. Samples of both the caliche and top soil were taken to a commercial laboratory for analysis. The caliche returned a chloride result of 32 mg/kg and the top soil returned a chloride result of non-detect. The lease road was backfilled with the imported caliche and the pasture was backfilled with the imported top soil. On December 10<sup>th</sup>, 2013, soil amendments were added to the pasture area and the area was seeded with LPC mix.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

#### OIL CONSERVATION DIVISION

Signature: *Fred B Wall*

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Date: 1-6-14

Phone: (806) 367-0645

Approved by Environmental Specialist:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached

\* Attach Additional Sheets If Necessary